SEPA EPA Region 10, 1200 Sixth Avenue, Seattle, WA 98101

Sample Custody & Analysis Required Form

EPA Manchester Laboratory, 7411 Beach Drive East, Port Orchard, WA 98366, 360-871-8700

Project Name	I Brainet Code	Form I	Effective Date: July 2005			Revision 1	
Project Name Buy Indon Hill	Project Code	025	Method of Shipment/carrier		Number (if known prior to sealing):		
Account Code Check all that apply Check all that apply							
	1 Hndy Jm		Enforce/Custod				
	applicable, circle the set of selecterals:		#C ② enter the number of containers for each preservative type followed by the appropriate preservation code P ③:	Laboratory: see the applica specific methods and detection	able QAPP, SOW and/or Analytical Support Recoon, reporting, and/or quantitation limits	quest for	
To transminding (Total)				and distributed and desired of the second se			
B) Cd Ca Cr Co 70 Tissue B-HNO H-EDTA N-No chemical p			B - HNO H - EDTA C - NaOH N - No chemical preservation				
Junion Cone	Cu Fe Pb Mg Mr Mo Ni K Se Ag	80 Oil/Solvent	D - H SO P - Bottles pre-preceived at lab	Organics Metal		Additional	
Juli worke (R)	Na Sn TI V Zn	1 11.por 0 11 ab	F - ascorbic acid², then HCl	(see reverse) (see	e) reverse) (see reverse)	Write in Analyses	
Maria	(see reverse for more to add/circ		² Na ₂ S ₂ O ₃ if required by plan.	विजिल्ल जिल्ल	Z m T H H H m Z lo >	(see reverse)	
Sampler's comments for the laboratory: Check here if the cooler is iced				Selected CLP PAH PCB Pest BNA VOA	Asbestos Oil & Greas NO2+NO3 BOD 5 TDS TTSS TSS TSS TSCOllform E. Collform Mercury		
PM where possible XRD & SEM Enter the letter or range of letters on each container for					Stos Gre		
each group of containers with the same preservative type. Each container for each unique sample number must have a					a as a s		
unique letter on it.							
EPA Sample number Sampling Date & Time Yr Wk Sequence Yr Mo Day	Matrix #C P	#C P #C P #C P Sampler 2 3 2 3 2 3 1 Initials	Sample/Station Description/Field Measurements				
2010101120920	105540	LE	Location L- West		X		
201010312017		I I I E	Location 1 - East		Z		
12090 00 20026	114940		Lo Cation Z. Sonothat drivewar		à		
LENG DE VERVE	5045		Location 2 South of Garage	3			
7090110120976	122010	TE STATE	Location 3 - North and Buston				
TOROLL STORY	20210		E VENNING AND				
			Location 4 - North End '				
Chain of Custody Record A Receiving Laboratory Information Condition of Samples upon Receipt at Lab:							
Relinquistred by (Signature)	Date 10/2/12 Time 10:01AL	Received by (Signature)	Date Time				
Relinquished by (Signature)	Date Time	Received by (Signature)	Date Time				
(Relinquished by (Signature) Date Time Received by (Signature) Date Time							
Relinquished by (Signature) Date Time Received by Mobile Lab for Field Analysis (Signature) Date Time Custody Seals Intact:							
Maria Sansaran I - I - I - I - I - I - I - I - I - I					yes no none		
Shipped by (Signature)	Date Time	Received for lab by (Signature)	Date Time Dis	tribution: White - Laboratory C			
Distribution: White - Laboratory Copy; Yellow - Regional Sample Control Center (RSCC) Copy; Pink - Field or Office Copy							

Additional Matrix Codes: 30 Leachate 50 Sludge 60 Air

Matrix codes: these are the codes in use at the EPA Region 10 Laboratory. Pick the matrix code that best matches the sample matrix. If in the opinion of the sampler, the sample matrix needs to be specially described, select 00 and write in a matrix description. Remember, tissue can be animal or vegetable in nature.

If the write in area becomes filled, cross out one of the pre-printed analyses and write in what is needed. Try to use the bolded analyte symbol/abbreviation (some analyses are not abbreviated).

Organics pre-printed on the form:

PAH Polynuclear Aromatic Hydrocarbons (these are a subset of the compounds reported from GC-MS analyses for BNA - PAH by HPLC or SIM-GC/MS methods are usually requested in order to get low reporting limits). Pest Organochlorine Pesticides PCB Polychlorinated Biphenyls aka Aroclors VOA (aka VOC) - volatile organic compounds BNA (aka SVOC or SVOA) - semivolatile organic compounds

Organics that can be written in:

AED scan (detects chlorinated or brominated hydrocarbons) Butyltins Butyltins (mono, di, tri, tetra substituted) CB Con - Chlorinated Biphenyl Congener analysis Chlor Hyd. Chlorinated Hydrocarbons Chlorophenols Gua/Cat Guaiacols/Catechols scan Herb Herbicides OP Pest Organophosphorous Pesticides PBDE Polybrominated diphenylethers Resin Acids TPH-Dx Total Petroleum Hydrocarbons, diesel range extended to motor oil TPH-Gx Total Petroleum Hydrocarbons, gasoline range TPH-HCID Total Petroleum Hydrocarbons, identification THMs Trihalomethanes

Metals pre-printed on the form (<u>underlined</u> = 'CLP metals' - mercury must be separately requested):

Al aluminum Sb antimony As arsenic Ba barium Be beryllium B boron Cd cadmium Ca calcium Cr chromium Co cobalt Cu copper Fe iron Pb lead Mg magnesium Mn manganese Hg mercury Ni nickel K potassium Se selenium Ag silver Na sodium Sn tin Tl thallium V vanadium Zn zinc

Metals that can be written in and then circled under the box used for designating selected metals:

Au gold Cr+6 hexavalent chromium Mo molybdenum Sr strontium TI titanium W tungsten Zr zirconium

Note: some metals may not be analyzed for on matrices other than soil/sed or water.

Microbiology Analyses pre-printed on the form:

E. Coll Escherichia coli F. Coliform Fecal Coliform T. Coliform Total Coliform

Microbiology Analyses that can be written in:

Enterococci MPA Microscopic Particulate Analysis for Determining GWUDI G/C Giardia/Cryptosporidium Collphage Staph a Staphylococcus aureus

Toxicity Characteristic Leaching Procedure (TCLP) write in analyses³:
TCLP BNA TCLP Herb TCLP Herbicides TCLP met+Hg TCLP metals including mercury
TCLP met TCLP metals not including mercury TCLP Hg TCLP mercury TCLP Pest TCLP
Pesticides TCLP VOA

3 Analyses are normally only conducted for analytes with a TCLP regulatory criteria.

General analyses pre-printed on the form:

BOD Biochemical Oxygen Demand NO,+NO, Nitrite plus Nitrate Oil & Grease TDS Total Dissolved Solids TSS Total Suspended Solids

General analyses that can be written in:

Acidity Alk Alkalinity TNH3 Ammonia HCO3 Bicarbonate Br Bromide CO3 Carbonate COD Chemical Oxygen Demand CI Chloride Color Color Cond Conductivity CN Cyanide CN-W&D Cyanide, weak & dissociable Flash Flash Point F Fluoride Grn Siz Grain Size Hard Hardness NO3 Nitrite NO3 Nitrate TNVS Non-Volatile Solids NVSS Non-Volatile Suspended Solids CLO4 Perchlorate pH Phenol Phenolics SiO3 Silica - dissolved SO4 Sulfate S Sulfide TOC Total Organic Carbon TS Total Solids % V Slds % Volatile Solids TVS Volatile Solids TVS Volatile Solids TVS Volatile Solids TKN Total Kjeldahl Nitrogen T-Phos Total Phosphorous D-Phos Dissolved Phosphorous O-Phos Ortho Phosphrous D-O-Phos Dissolved Ortho Phosphrous Turb Turbidity

Container guidance.

Note: this is general information only - consult the QA Project Plan on appropriate containers and preservatives for each project. Modifying methods may require modifying the number/type of containers. Freezing samples for one or more analyses may require collection of individual containers. Contact the laboratory for minimum sample volumes in situations where sample material is limited. Minimum volumes required for analysis will depend on the analysis and required reporting limits.

Containers for soil/sediment:

Metals/cyanide/mercury: 1, wide mouth 8 ounce glass or HDPE.

Extractable organics: 1, 8 ounce wide mouth amber glass, for one or two analyte groups Inorganics and organics: 1, sixteen ounce wide mouth amber glass.

VOAs/purgeables: Contact the laboratory for the proper number/type of special Closed-System sample containers.

Containers/chemical preservatives for water4:

Metals/regular mercury: 1, one liter HDPE, HNO3 to pH<2

Mercury by method 1631: HCl and 250 mL containers provided by MEL

Cyanide: 1, 250 mL or larger HDPE, remove sulfides and/or residual chlorine then add NaOH to pH>12

Extractable organics (BNA, Pest, PCP, PAH etc.): two, one liter amber glass containers for each analysis - if more than one liter will be extracted for the project, it is advisable that the container size match (but not exceed) the volume to be extracted. Two separate volumes are usually collected for each analysis to allow for re-extraction if needed.

VOAs/purgeables: 3, zero headspace 40 mL amber glass vials with Teflon Septa, remove residual chlorine then add HCl to pH<2.

Alkalinity: 1, 250 mL or larger HDPE, no extra volume for lab QC

Ammonia: 1, 250 mL or larger HDPE, H2SO4 to pH<2, no extra volume for lab QC

BOD 5: 1, one gallon HDPE, no extra volume for lab QC

TSS: 1, one liter or larger HDPE, no extra volume for lab QC TDS: 1, 250 mL or larger HDPE, no extra volume for lab QC

Oil & Grease: 1, one liter clear glass, HCl to pH<2, submit 4 separate containers for the lab QC sample

NO2+NO3: 1, 250 mL or larger HDPE, H2SO4 to pH<2, no extra volume for lab QC

Br, Cl, F, SO4, CLO4: for analysis by ion chromatography, 1, 100 mL or larger HDPE, no extra

Water samples to be designated for lab QC should have double volume submitted for metals, triple volume for organics. In general, extra volume is usually not required for lab QC for soil/ sediment.